

maxon[®]
Maxon America, Inc.

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VHF/UHF Professional Radio

TJ-3000 Series User Manual

TJ-3100V (VHF)

TJ-3400U (UHF)



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FCC Regulations

FCC REGULATIONS

LICENSING - The FCC requires the owners of TJ-3000 Series radios to obtain a station license before using them.

The station licensee is responsible for ensuring that transmitter power, frequency and deviation are within the limits specified by the station license. The station licensee is also responsible for proper operation and maintenance of the radio equipment. This includes checking the transmitter frequency and deviation periodically, using appropriate methods.

To get a FCC license for VHF or UHF frequencies, submit FCC application Form 600 as indicated in the block below.

SAFETY STANDARDS - The FCC has adopted a safety standard for RF energy exposure awareness and control information, and operational instructions for FCC occupational use requirements.

Service - Federal law prohibits you from making any internal adjustments to the transmitter, and / or from changing transmit frequencies unless you are specifically designated by the licensee.

If your radio equipment fails to operate properly, contact your authorized dealer or MAXON AMERICA, INC.

HOW TO OBTAIN AN FCC RADIO LICENSE

Federal Communications Commission (FCC) Licensing Information

Because your radio operates on Private Land Mobile frequencies, it is subject to the Rules and Regulations of the FCC, which requires all operators of these frequencies to obtain a station license before operating their equipment. Make application for your FCC license on FCC Forms 600 and 159.

*To have forms and instructions faxed to you by the FCC, call the **FCC Fax-On-Demand** system at **202-418-0177** from your fax machine: request Document 000600 & Form 159*

*To have Document 000600 & Form 159 mailed to you call the **FCC Forms Hotline** at **800-418-FORM** (800-418-3676)*

*For **help with questions** concerning the license application, contact the FCC at **888-CALL-FCC** (888-225-5322) or go to the FCC'S website: www.fcc.gov/services/personal/generalmobile/licensing.html*

You must decide which radio frequency(ies) you can operate on before filling out your application.

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Thank you for purchasing the TJ-3000 Series Job-Site radio.

1. Before operating the radio, please read the user manual carefully.
2. The functions and specifications are subject to be changed without notice for improvement of the radio performance.



Radio



Antenna



Charging adaptor & charger cradle



Battery pack



Belt Clip



User Manual

1. Controls & LCD Display

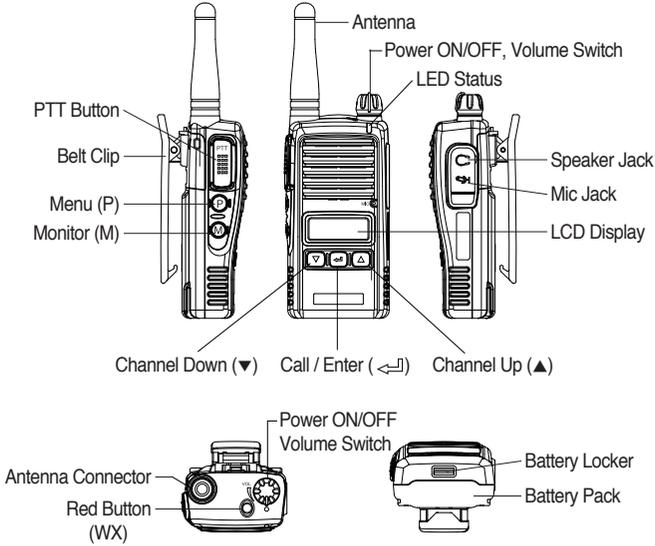


Figure 1-1) Appearance TJ-3000 Series Radio

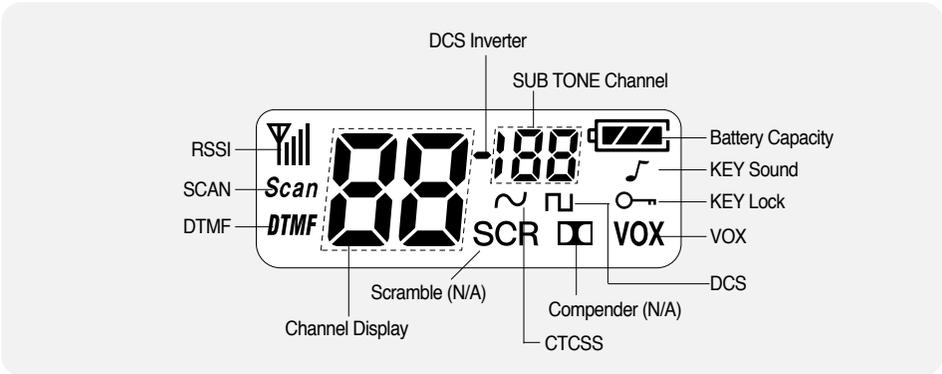


Figure 1-2) LCD Indication of TJ-3000 Series Radio

2. Operation of the TJ-3000 Series Radio

1. Power on/off, Volume control switch

Turns the radio on and off, and adjusts audio volume level.

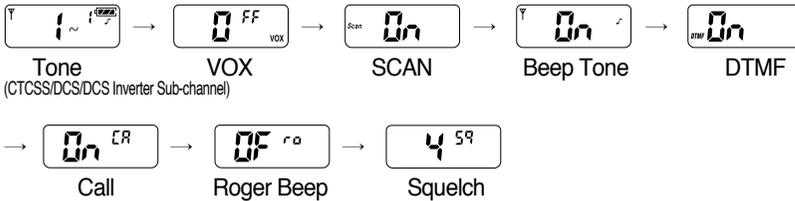
2. PTT (Push-To-Talk)

Radio transmission button

3. Menu Button (P, Program-Menu Button)

Pressing for more than 1 second, the radio will be entered into Menu programming mode.

Repeated presses of the (P) button will advance the menu as follows:



4. Monitor Button (M)

The monitor function will be enabled and disabled by pressing the Monitor (M) button.

Normal mode: Pressing the M button for less than 2 seconds, checks the receiving status.

Continuous mode: Pressing the M button for more than 2 seconds, the radio will go into continuous monitor mode with beep tone. To exit from continuous monitor mode, press the M button again.

5. Channel Up/Down Buttons

The channel button will have 2 functions.

- (1) To move channels upward or downward
- (2) To move feature list while the radio is in Menu mode.

6. Speaker Mic Jack

This jack is used when connecting external speaker-mic or ear-mic/audio accessories.

7. LED Status

The LED indicates various status' of the radio.

- (1) RX - Green color
- (2) TX - Red color during PTT
- (3) CTCSS, DCS Error - Green color blinking
- (4) Low Battery - Red color blinking with beep tone

3. Battery Installation

Please read the user manual carefully before using TJ-3000 Series radio.
This user manual contains important and useful information about the radio.

► Battery installation and Removal

To install battery, slide up the battery pack towards top of the radio until battery latch is locked.

To remove the battery, slide the battery latch located on the bottom of the radio to the open position as shown in the figure 3-1.

The battery pack will be removed by pressing it against and sliding it towards the bottom of the radio as shown in figure 3-1.

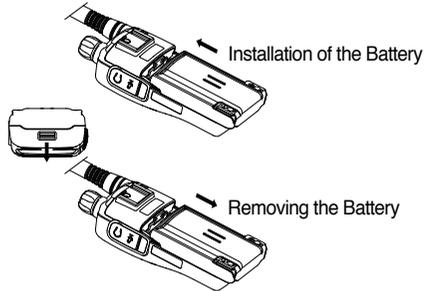


Figure 3-1) Installation and Removal of the Battery

4. Recharging Battery

► Charging battery

Connect AC/DC adaptor to charger cradle.

Charge the battery before initial use of radio.

Place the radio into the charger cradle. When you charge the battery, the radio should be in the off position.

* Status of LED on charging cradle:

Charging - Red color

Fully charged - Green color

► Proper time for recharging

A low level of battery voltage will lower the radio's performance.

Please charge the battery if the following items occur:

- (1) When you think performance of the radio becomes lower
- (2) When the LED on radio blinks red
- (3) When the battery status icon on LCD display blinks
- (4) When "beep" sound is generated while the radio is in use

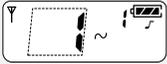
► Safety Note

Charge only with specific charger.

► Charger Specifications

- (1) Input Voltage : DC5V, 750mA
- (2) Operating Temp : - 0 C ~ 50 C
- (3) Charging time : 4 hours
- (4) Size : 76mm(L) X 85mm(W) X 37mm(H)
- (5) Charging current : 750mA

5. Function & Operation

NO	Function	Button & LED status	LCD Display
1	Power on/off	Power on/off, Volume switch	
2	Transmit (TX)	PTT button Red LED	
3	Receive (RX)	Green LED	
4	Channel Selection	Up (▲) / Down (▼) button	
5	Scan	To start Scan, Menu (P) + Enter (↵) To end Scan, Just press Menu (P) button	
6	Monitor	Monitor button Green LED	Short time monitor : Press monitor button temporarily. Continues monitor : Press monitor button for 2 sec.
7	Key Lock	To enable, Menu (P) + Up button To disable, Menu (P) + Down button	
8	Call	Call/Enter (↵) Button (10 different call tones you can select)	Red LED On
9	WX Radio	Red Button (Do a quick press to enable WX channels)	

► 5.1 CTCSS/DCS/DCS Inverter sub-tone channel selection:

Press Menu (P) button for more than 1 second and the radio will go into function setting mode.

Press UP (▲) or DOWN (▼) button to select Type of Sub-Channel.

CTCSS Sub-Channel : (~)

DCS Sub-Channel : (~)

DCS Inverter Sub-Channel : (-)

No setting Sub-Channel : ()

To select CTCSS tone sub-channel, select (~) by pressing UP (▲) or DOWN (▼) button, and Press Enter (↵) button to confirm.

Sub-Tone channel LCD digit will be blinking



Press Up or DOWN to select your desired CTCSS tone (1~38), and press Enter (↵) button to confirm.

To exit from menu, press M button or PTT switch.

Use same method to set up DCS (~) or DCS Inverter (-) Sub-Tone Channels.

► 5.2 VOX function On/Off selection:

Press Menu (P) button for more than 1 second and the radio will enter into function setting mode.

Press Menu (P) button again. Then VOX setting Icons will be blinking.



By pressing UP (▲) or DOWN (▼) button, you can select on or off. Press Enter (↵) button to confirm. To exit from menu, press M button or PTT switch.

► 5.3 Scan On/Off selection:

Press Menu (P) button for more than 1 second and the radio will enter into function setting mode.

Press Menu (P) button 2 times. Radio will go to Scan setting menu mode.

By pressing UP (▲) or DOWN (▼) button, you can select On or Off.

Select On and press Enter (↵) button to confirm Scan On.

To exit from menu, press M button or PTT switch.

With Scan On, you may enable the Scan operation by pressing Menu (P) and Enter (↵) buttons at the same time. The SCAN icon will appear and the radio will begin to Scan all channels (27 for VHF and 89 for UHF).

Scanning and Dwell Time - If during scan, your radio receives a call from another radio (e.g. Channel 2), the scanning will cease for 3 seconds after the call is completed. This 3 second period is referred to as "Dwell Time". If during that 3 second Dwell Time, you wish to speak with that user; you can press PTT and communicate with that user on channel 2. If you do not press PTT within the 3 second Dwell Time, the radio will resume scanning.

Scanning and Home Channel - when you enable scan, the channel that is shown on the display will be designated as the Home Channel. The Home Channel is the channel that the radio will transmit on when you press PTT and the radio is not in the 3 second Dwell Time as noted above. (Example: If the radio is on channel 10 and scan is enabled; channel 10 will be the designated Home Channel. Simply press PTT while the radio is scanning and the radio will transmit on channel 10).

To disable scan, press Menu (P) button.

Additional scanning features are available through programming software. Contact Maxon or an Authorized Maxon Dealer for additional information.

► 5.4 Beep Tone On/Off selection:

Press Menu (P) button for more than 1 second and the radio will enter into function setting mode. Press Menu (P) button 3 times. Radio will go to Beep tone on/off setup mode.

By Pressing UP (▲) or DOWN (▼) button, set Beep tone on or off. Press Enter (↵) button to confirm. To exit from menu, press M button or PTT button.

► 5.5 DTMF tone selection:

Press Menu (P) button for more than 1 second and the radio will enter into function setting mode. Press Menu (P) button 4 times. Radio will go to DTMF setting mode. By pressing UP (▲) or DOWN (▼) button, and pressing Enter (↵) button, you can select 10 different DTMF tones. To exit from menu, press M button or PTT button.

► 5.6 Call tone selection (10 different call tones):

Press Menu (P) button for more than 1 second and the radio will enter into function setting mode. Press Menu (P) button 5 times. Radio will go to Call tone selection mode. By pressing UP (▲) or DOWN (▼) button, and pressing Enter (↵) button, you can select On or Off.

If you select On and press Enter (↵) button, you can select 10 different Call tones by pressing UP (▲) or DOWN (▼) button. To confirm your setting, please Enter (↵) button. To exit from menu, press M button or PTT button.

To enable Call, press Call/Enter(↵) button.

** Reminder : To receive Call tone, the receiving radio needs to be on the same channel and tone settings.

To exit from menu, press M button or PTT button.

► 5.7 Roger Beep On/Off selection:

Press Menu (P) button for more than 1 second and the radio will enter into function setting mode.

Press Menu (P) button 6 times. Radio will go into Roger beep on/off setting mode.

By pressing UP (▲) or DOWN (▼) button will select on or off. To confirm your selection, press Enter (↵) button.

To exit from menu, press M button or PTT switch.

► 5.8 Squelch level selection:

Press Menu (P) button for more than 1 second and the radio will enter into function setting mode.

Press Menu (P) button 7 times. Radio will go into Squelch level selection mode.

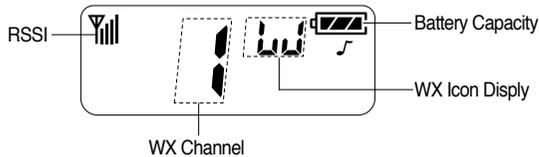
By pressing UP (▲) or DOWN (▼), and Enter (↵) button, select your desired Squelch level from 0 to 9. 0 means the open squelch and 9 means the tightest squelch.

To exit from menu, press M button or PTT switch.

► 5.9 Weather On/Off selection:

To enable weather (WX) mode, do a quick press of red button on top of radio.

LCD will display WX mode. Press UP (▲) or DOWN (▼) button to move through WX channels.



To exit from WX mode, press red button again.

** Reminder : When WX mode is enabled, the radio will not transmit or receive talk transmissions.

When WX is disabled, the radio will revert to it's previous channel and mode of operation.

To temporarily mute the receiving WX channel, push PTT. To unmute, push monitor (M) button.

6. Frequency Charts

VHF Frequency Charts				
Maxon TJ Series Model TJ-3100V VHF Radio				
Channel	Transmit (TX) Frequency	Receive (RX) Frequency	Output Power	Bandwidth W/N
1	151.6250	151.6250	2	N
2	151.9550	151.9550	2	N
3	152.8850	152.8850	2	N
4	152.9150	152.9150	2	N
5	151.7000	151.7000	2	N
6	151.7600	151.7600	2	N
7	152.9450	152.9450	2	N
8	151.8350	151.8350	2	N
9	151.8050	151.8050	2	N
10	151.5125	151.5125	2	N
11	151.6550	151.6550	2	N
12	151.6850	151.6850	2	N
13	151.7150	151.7150	2	N
14	151.7450	151.7450	2	N
15	151.7750	151.7750	2	N
16	151.8650	151.8650	2	N
17	151.8950	151.8950	2	N
18	151.9250	151.9250	2	N
19	152.7000	152.7000	2	N
20	154.4900	154.4900	2	N
21	154.5150	154.5150	2	N
22	154.5275	154.5275	2	N
23	154.5400	154.5400	2	N
24	153.0050	153.0050	2	N
25	154.6550	154.6550	2	N
26	157.4000	157.4000	2	N
27	158.4075	158.4075	2	N
Enable WX Channel with top red button	Weather 1	162.5500		
	Weather 2	162.4000		
	Weather 3	162.4750		
	Weather 4	162.4250		
	Weather 5	162.4500		
	Weather 6	162.5000		
	Weather 7	162.5250		

UHF Frequency Charts

Maxon TJ Series
Model TJ-3400U UHF Radio

Channel	Transmit (TX) Frequency	Receive (RX) Frequency	Output Power	Bandwidth W/N
1	464.5000	464.5000	2	N
2	464.5500	464.5500	2	N
3	467.7625	467.7625	2	N
4	467.8125	467.8125	2	N
5	467.8500	467.8500	2	N
6	467.8750	467.8750	2	N
7	467.9000	467.9000	2	N
8	467.9250	467.9250	2	N
9	461.0375	461.0375	2	N
10	461.0625	461.0625	2	N
11	461.0875	461.0875	2	N
12	461.1125	461.1125	2	N
13	461.1375	461.1375	2	N
14	461.1625	461.1625	2	N
15	461.1875	461.1875	2	N
16	461.2125	461.2125	2	N
17	461.2375	461.2375	2	N
18	461.2625	461.2625	2	N
19	461.2875	461.2875	2	N
20	461.3125	461.3125	2	N
21	461.3375	461.3375	2	N
22	461.3625	461.3625	2	N
23	462.7625	462.7625	2	N
24	462.7875	462.7875	2	N
25	462.8125	462.8125	2	N
26	462.8375	462.8375	2	N
27	462.8625	462.8625	2	N
28	462.8875	462.8875	2	N
29	462.9125	462.9125	2	N
30	464.4875	464.4875	2	N
31	464.5125	464.5125	2	N
32	464.5375	464.5375	2	N
33	464.5625	464.5625	2	N
34	466.0375	466.0375	2	N
35	466.0625	466.0625	2	N
36	466.0875	466.0875	2	N
37	466.1125	466.1125	2	N
38	466.1375	466.1375	2	N
39	466.1625	466.1625	2	N

UHF Frequency Charts

Maxon TJ Series
Model TJ-3400U UHF Radio

Channel	Transmit (TX) Frequency	Receive (RX) Frequency	Output Power	Bandwidth W/N
40	466.1875	466.1875	2	N
41	466.2125	466.2125	2	N
42	466.2375	466.2375	2	N
43	466.2625	466.2625	2	N
44	466.2875	466.2875	2	N
45	466.3125	466.3125	2	N
46	466.3375	466.3375	2	N
47	466.3625	466.3625	2	N
48	467.7875	467.7875	2	N
49	467.8375	467.8375	2	N
50	467.8625	467.8625	2	N
51	467.8875	467.8875	2	N
52	467.9125	467.9125	2	N
53	469.4875	469.4875	2	N
54	469.5125	469.5125	2	N
55	469.5375	469.5375	2	N
56	469.5625	469.5625	2	N
57	462.1875	462.1875	2	N
58	462.4625	462.4625	2	N
59	462.7875	462.7875	2	N
60	462.5125	462.5125	2	N
61	467.1875	467.1875	2	N
62	467.4625	467.4625	2	N
63	467.4875	467.4875	2	N
64	467.5125	467.5125	2	N
65	451.1875	451.1875	2	N
66	451.2375	451.2375	2	N
67	451.2875	451.2875	2	N
68	451.3375	451.3375	2	N
69	451.4375	451.4375	2	N
70	451.5375	451.5375	2	N
71	451.6375	451.6375	2	N
72	452.3125	452.3125	2	N
73	452.5375	452.5375	2	N
74	452.4125	452.4125	2	N
75	452.5125	452.5125	2	N
76	452.7625	452.7625	2	N
77	452.8625	452.8625	2	N
78	456.1875	456.1875	2	N

UHF Frequency Charts				
Maxon TJ Series Model TJ-3400U UHF Radio				
Channel	Transmit (TX) Frequency	Receive (RX) Frequency	Output Power	Bandwidth W/N
79	456.2375	456.2375	2	N
80	456.2875	456.2875	2	N
81	456.3375	456.3375	2	N
82	456.4375	456.4375	2	N
83	456.5375	456.5375	2	N
84	456.6375	456.6375	2	N
85	457.3125	457.3125	2	N
86	457.4125	457.4125	2	N
87	457.5125	457.5125	2	N
88	457.7625	457.7625	2	N
89	457.8625	457.8625	2	N
Enable WX Channel with top red button	Weather 1	162.5500		
	Weather 2	162.4000		
	Weather 3	162.4750		
	Weather 4	162.4250		
	Weather 5	162.4500		
	Weather 6	162.5000		
	Weather 7	162.5250		

Note: Devices FCC type accepted after January 1, 2011 are narrow band only of which the TJ-3000 Series applies.

7. CTCSS and DCS Code Tables

Sub-Tone Table

CTCSS Frequency Table

No.	Frequency								
1	67.0	14	107.2	27	167.9	40	159.8	53	64.7
2	71.9	15	110.9	28	173.8	41	183.5		
3	74.4	16	114.8	29	179.9	42	189.9		
4	77.0	17	118.8	30	186.2	43	196.6		
5	79.7	18	123.0	31	192.8	44	199.5		
6	82.5	19	127.3	32	203.5	45	206.5		
7	85.4	20	131.8	33	210.7	46	229.1		
8	88.5	21	136.5	34	218.1	47	254.1		
9	91.5	22	141.3	35	225.7	48	165.5		
10	94.8	23	146.2	36	233.6	49	171.3		
11	97.4	24	151.4	37	241.8	50	177.3		
12	100.0	25	156.7	38	250.3	51	60.7		
13	103.5	26	162.2	39	69.3	52	62.5		

DCS Tone Table

No.	DSC Code										
1	023	19	131	37	261	55	431	73	654	91	252
2	025	20	132	38	263	56	432	74	662	92	255
3	026	21	134	39	265	57	445	75	664	93	266
4	031	22	143	40	271	58	464	76	703	94	274
5	032	23	152	41	306	59	465	77	712	95	325
6	043	24	155	42	311	60	466	78	723	96	332
7	047	25	156	43	315	61	503	79	731	97	356
8	051	26	162	44	331	62	506	80	732	98	446
9	054	27	165	45	343	63	516	81	734	99	452
10	065	28	172	46	346	64	532	82	743	100	454
11	071	29	174	47	351	65	546	83	754	101	455
12	072	30	205	48	364	66	565	84	053	102	462
13	073	31	223	49	365	67	606	85	122	103	523
14	074	32	226	50	371	68	612	86	036	104	526
15	114	33	243	51	411	69	624	87	145		
16	115	34	244	52	412	70	627	88	212		
17	116	35	245	53	413	71	631	89	225		
18	125	36	251	54	423	72	632	90	246		

8. For Safe Operation



Warning

Don't transmit with antenna detached from the radio or don't damage or change antenna type. Strong electronic waves are emitted from the radio and damages or changes to the antenna may effect the performance of the radio, and it may cause the radio to be defective and not covered under warranty.



Warning

Don't use other manufacturers accessories. Unknown or unauthorized accessories may cause the radio to be defective and not covered under warranty.



Warning

Don't disassemble the radio. Disassembly of the radio may cause a serious defect or malfunction and not be covered under warranty.



Warning

Avoid excessive shock to the radio.
Don't place the radio where the direct sunlight or high temperature occurs.
Don't make a damage to the battery pack by sharp object or an excessive shock.



Warning

Turn off the radio before boarding on an airplane.
Don't use the radio in the hospital without any pre-approval.
Don't use the radio at the place of where computer or other electronic devices are being used.



Warning

- Please keep the radio at least 1 inch away from the human body.
- Any damage to the antenna, may cause RF exposure.
- When using earphone, please reduce the volume to a low level. If not, unexpected high sound may have harmful effect to your ear.
- Don't touch the conductive metal of the battery radio with wet hands. It may cause damage on your hands.
- Please be careful when putting the battery in a pocket or a bag to avoid contact with metal.

• FCC RF EXPOSURE COMPLIANCE REQUIREMENTS FOR OCCUPATIONAL USE ONLY

The Federal Communications Commission (FCC), with its action in General Docket 93-62, November 7, 1997, has adopted a safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. Proper operation of this radio will result in user exposure far below the Occupational Safety and Health Act (OSHA) and Federal Communications Commission limits.

- **DO NOT** transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.
- This radio is NOT approved for use by the general population in an uncontrolled environment. This radio is restricted to occupational use, work related operations only where radio operator must have the knowledge to control the user's exposure conditions for satisfying the higher exposure limit allowed for occupational use.
- When transmitting, hold the radio in a vertical position with its microphone 1 inches (2.5 cm) away from your mouth.
- The radio is transmitting when the red LED on the front of the radio is illuminated. You can cause the radio to transmit by pressing the PTT bar on the radio.
- These are required operating configurations for meeting FCC RF exposure compliance. Failure to observe these restrictions mean violation.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This devices may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

9. Warranty Statement

Maxon America, Inc. offers to the original end user:

Two (2) Year Limited Warranty on TJ-3000 Radios.

One (1) Year Limited Warranty on Accessories (Includes, but not limited to batteries, antennas, belt clips, chargers, audio accessories, nylon cases, leather cases, etc.).

Maxon warrants each product manufactured or supplied by it to be free from defects in material and workmanship under normal use and service for the time period stated, provided that the user has complied with the requirements stated herein.

The warranty period begins on the date of purchase from an Authorized Maxon Dealer.

This warranty is not assignable or transferable. This warranty is void if the product serial number is altered, defaced or removed. Maxon is not responsible for any equipment that is attached to or used in conjunction with Maxon products.

During the warranty period, if the product fails to function under normal use, because of manufacturing defects or workmanship, it should be returned to the Authorized Maxon Dealer from which it was purchased. The Authorized Maxon Dealer will repair the product or return the product for repair to Maxon or its Authorized Repair Depot. The user is responsible for the removal of the product from a vehicle or any equipment attached to it, or other site of its use; transportation of the product to the Authorized Maxon Dealer; for the return of the repaired or replacement product to the site of its use and for the reinstallation of the product.

Maxon shall have no obligation to make repairs or replacement of product which results from normal wear and tear, or is necessitated by catastrophe, fault, or negligence of the user, improper or unauthorized alterations or repairs to the product, incorrect wiring, use for which it was not designed or by causes external to the product. Maxon's sole obligation shall be to replace or repair the product covered by the warranty. Replacement is done at Maxon's discretion and may consist of a similar or higher featured product. Repair may include the replacement of parts with functionally equivalent new or reconditioned parts. All replaced parts and accessories are warranted for the balance of the original time period. All parts and accessories that are replaced become the property of Maxon America Inc.

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FOR ANY PRODUCT THAT DOES NOT COMPLY WITH THE WARRANTY SPECIFIED, THE SOLE REMEDY WILL BE REPAIR OR REPLACEMENT. IN NO EVENT WILL TECNET BE LIABLE FOR ANY DAMAGES, INCLUDING ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, OR THE LOSS OF PROFIT, REVENUE OR DATA ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT.

Replacement Parts

TJA-1800LI	Battery - 1800 mAh Lithium Ion
TJA-341	Antenna - VHF
TJA-342	Antenna - UHF
TJA-300L	Charger - Rapid Rate
TJA-30BC	Belt Clip

Optional Accessories

ACC-600TJ3	Vehicular Charger - Single Unit
ACC-6110TJ3	Charger - 6 Unit Gang Charger
TA-836X	Speaker Microphone - Standard
TA-850X	Speaker Microphone - Heavy Duty
TA-818X	Ear Speaker (Discreet Audio Cord) w/Lapel Mic/PTT
TA-819X	Ear Speaker ("C" Hook) w/Lapel Mic/PTT
TJA-30NC	Case - Nylon

Contact Maxon for additional accessories.